UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/621,085	07/15/2003	Justin Mortensen	LSI.74US01 (03-0840)	9264

24319 7590 07/12/2006	EXAMINER
LSI LOGIC CORPORATION	COLAN, GIOVANNA B

1621 BARBER LANE	ART UNIT	PAPER NUMBER
MS: D-106	---	---
MILPITAS, CA 95035	2162	

DATE MAILED: 07/12/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>3</u> MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *17 April 2006*.

2a)☒ This action is **FINAL**.   2b)☐ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-11* is/are pending in the application.

    4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-11* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☐ All b)☐ Some * c)☐ None of:

      1.☐ Certified copies of the priority documents have been received.

      2.☐ Certified copies of the priority documents have been received in Application No. _____.

      3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☐ Notice of References Cited (PTO-892)	4) ☐ Interview Summary (PTO-413)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____ .
3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	5) ☐ Notice of Informal Patent Application (PTO-152)
Paper No(s)/Mail Date _____ .	6) ☐ Other: _____ .

DETAILED ACTION

1.   This action is responsive to the Amendment filed on 04/17/2006.

2.   Claim 4 was amended. No claims were canceled. No claims were added.

3.   This action is made Final.

4.   Claims 1 – 11 are pending in this application.

5.   Applicant's arguments filed on 04/17/2006 have been fully considered but they

are not persuasive.

Claim Rejections - 35 USC § 103

6.   The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set
> forth in section 102 of this title, if the differences between the subject matter sought to be patented and
> the prior art are such that the subject matter as a whole would have been obvious at the time the
> invention was made to a person having ordinary skill in the art to which said subject matter pertains.
> Patentability shall not be negatived by the manner in which the invention was made.

7.   This application currently names joint inventors. In considering patentability of

the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of

the various claims was commonly owned at the time any inventions covered therein

were made absent any evidence to the contrary. Applicant is advised of the obligation

under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was

not commonly owned at the time a later invention was made in order for the examiner to

consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g)

prior art under 35 U.S.C. 103(a).

8.   Claim 1 – 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Cianfrocca et al. (Cianfrocca hereinafter) (US Patent No. 6,088,796) in view of Ananian

et al (Ananian hereinafter) (US Patent No. 6,922,701 B1).

        Regarding Claim 1, Cianfrocca discloses a method of managing data in a

plurality of disparate and diverse databases (Fig. 1, items 101 – 110, Col. 8, lines 50 –

60, Ananian) comprising:

        providing a first database located in a first location (Fig. 1, item 105, Col. 6, lines

11 – 14, Cianfrocca) and further being located behind a first firewall (Fig. 1, item 104,

Col. 6, lines 13 – 14, Cianfrocca);

        providing a second database located in a second location (Fig. 1, item 106, Col.

6, lines 14 – 17, Cianfrocca) and further being located behind a second firewall (Fig. 1,

item 104, lines 14 – 17, Cianfrocca);

        providing a clearinghouse server (Fig. 1 and 4, item 103, Web Server Running

Messenger System, Col. 6 and 17, lines 17 – 20 and 1 – 2; respectively, Cianfrocca)

located outside of said first firewall and said second firewall (Fig. 1, item 104, Firewall,

Col. 6, lines 19 – 22, Cianfrocca), said clearinghouse server having a clearinghouse

database (Fig. 4, Col. 17, line 54, Database, Cianfrocca);

providing a workstation located behind said first firewall (Col. 16, lines 24 – 28,

Cianfrocca[1]), said workstation having a clearinghouse interface program (Col. 16, lines

27 – 28, clients, Cianfrocca[2]);

establishing communications between said clearinghouse interface program with

said clearinghouse server (Col. 16, lines 24 – 26, Cianfrocca).

Cianfrocca does not explicitly teach indexing CAD data from the databases,

transmitting request for a requested file, determining the location of said requested file,

sending a request to second database for said file, converting said file to transmittable

format, or transmitting said file. On the other hand, Ananian discloses a method and

system for managing CAD data files (Col. 2, lines 43 – 47, Ananian), including: a

clearinghouse database comprising an index to at least a portion of CAD data in first

database and at least a portion of CAD data in second database (Fig. 1, Col. 9 and Col.

11, lines 19 – 23 and 4 – 8; respectively, Ananian); transmitting a request for a

requested file from said clearinghouse interface program to said clearinghouse server

(Col. 13, lines 14 – 30, Ananian); determining that said requested file is located in said

second database by using said clearinghouse database (Col. 14, lines 2 – 4, Ananian[3]);

sending a request from said clearinghouse server to said second database for said

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[1] Cianfrocca discloses, as cited above, workstations including programs, in the User Agent, to communicate with the messenger system server (equivalent to the clearinghouse server). In addition, Cianfrocca discloses that the communication between the User Agent and messenger system server will be across firewall (Col. 8, lines 7 – 9). This implies that the workstations are also behind the firewall.
[2] Cianfrocca discloses that clients will be programs that run at user workstations and call routines to connect to the messenger system server (equivalent to the clearinghouse server).
[3] Ananian further discloses entering zip code or country (location) and other topics of the specific item requested. This implies locating the requested item in a specific database (see Col. 14, Table 1, lines 23 and 27).

requested file (Col. 14, lines 35 – 38, Ananian); converting said requested file to a first

transmittable format (Col. 3 and 7, lines 37 – 39, and 21 – 27 and 48 – 53; respectively,

Ananian[4]); and transmitting said requested file from said second database in said first

transmittable format (Col. 20, lines 1 – 6, Ananian).It would have been obvious to one of

ordinary skills in the art at the time the invention was made to add Ananian's funcionality

for sending and converting a CAD file to the system and method of Cianfrocca to let

users manipulate, modify, and update different CAD format files. One of ordinary skills

in the art at the time the invention was made would have been motivated to do so, in

order to improve interaction between the client and the professionals throughout the

construction process; to ensure consistent and informed client input, cost-effective

decisions, while maintaining the client's visionary perspective (Col. 2, lines10 – 17,

Ananian). In addition, the prior art suggests a successful outcome of this combination,

such as, significantly reducing the time, complexity and uncertainty involved in the

design of a structure (Col. 3, lines 43 – 45, Ananian), improving interaction between the

client and the builder throughout the construction process (Col. 3, lines 53 – 55,

Ananian), acquiring a fully detailed build specification from a client (Col. 3, lines 58 – 60,

Ananian), and reducing lengthy communications between the builder and the client,

making the builder efficient and bale to focus on the core task: building the house (Col.

3, lines 61 – 64, Ananian)

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[4] Wherein the profile response corresponds to the requested file as claimed (Col. 3, lines 37 – 39,
Ananian); the data file of the plan set corresponds to the requested file claimed (Col. 7, lines 9 – 13 and
20 – 24, Ananian); and the "XML" (External Markup Language corresponds to the transmittal form
claimed (Col. 7, lines 21 – 27 and 48 – 53, Ananian).

Regarding Claim 2, the Cianfrocca and Ananian combination (hereinafter "Cianfrocca/Ananian") discloses a method, wherein said workstation is a CAD workstation (Col. 16, lines 24 – 28, Cianfrocca[5]; Col. 2, lines 43 – 47, Ananian) and said clearinghouse interface program is a plug-in application (Col. 16, lines 27 – 28, clients, Cianfrocca[6]; Col. 16, lines 26 – 29, Ananian).

Regarding Claim 3, Cianfrocca/Ananian discloses a method, wherein said establishing communications between said clearinghouse interface program and said clearinghouse server comprises authenticating and authorizing said clearinghouse interface program (Col. 13, lines 40 – 45, Ananian).

Regarding Claim 4, Cianfrocca/Ananian discloses a method, further comprising:

converting said requested file from said first transmittable format to a first CAD format (Col. 5, lines 21 – 28, Ananian);

translating said requested file from said first CAD format to a second CAD format (Col. 7, lines 8 – 12, Ananian);

converting said requested file from said first CAD format to said second transmittable format (Col. 7, lines 49 – 54, Ananian);

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[5] Cianfrocca discloses, as cited above, workstations including programs, in the User Agent, to communicate with the messenger system server (equivalent to the clearinghouse server). In addition, Cianfrocca discloses that the communication between the User Agent and messenger system server will be across firewall (Col. 8, lines 7 – 9). This implies that the workstations are also behind the firewall.
[6] Cianfrocca discloses that clients will be programs that run at user workstations and call routines to connect to the messenger system server (equivalent to the clearinghouse server).

transmitting said requested file to said first CAD station using said second

transmittable format (Col. 7, lines 62 – 65, Ananian[7]); and

converting said requested file from said second transmittable format to said

second CAD format (Col. 8, lines 6 – 11, Ananian[8]).

Regarding Claim 5, Cianfrocca/Ananian discloses a method, wherein said step of

translating said requested file from said first CAD format to said second CAD format is

performed by said clearinghouse server (Col. 6, lines 9 – 12, Ananian).

Regarding Claim 6, Cianfrocca/Ananian discloses a method, wherein said first

transmittable format comprises XML (Col. 7, lines 20 – 26, Ananian).

Regarding Claim 7, Cianfrocca/Ananian discloses a system for sharing files

across disparate databases comprising:

a first server located behind a first firewall (Fig. 1, item 104, Col. 6, lines 13 – 14,

Cianfrocca) and connected to a first database (Fig. 1, item 105, Col. 6, lines 11 – 14,

Cianfrocca) that contains a first set of files (Col. 9, lines 40 – 43, Cianfrocca);

a second server located behind a second firewall (Fig. 1, item 104, Col. 6, lines

14 – 17, Cianfrocca) and connected to a second database (Fig. 1, item 106, Col. 6, lines

14 – 17, Cianfrocca) that contains a second set of files(Col. 19, lines 30 – 33,

application server components, Cianfrocca);

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[7] The profile engine would correspond to the first CAD station.

a clearinghouse server (Fig. 1 and 4, item 103, Web Server Running Messenger System, Col. 6 and 17, lines 17 – 20 and 1 – 2; respectively, Cianfrocca) located outside of said first firewall and said second firewall (Fig. 1, item 104, Firewall, Col. 6, lines 19 – 22, Cianfrocca);

a clearinghouse database located on said clearinghouse server (Fig. 4, Col. 17, line 54, Database, Cianfrocca) and having an index to at least a portion of said first set of files in said first database and at least a portion of said second set of files in said second database (Fig. 1, Col. 11, lines 4 – 8, Ananian);

a workstation located behind said first firewall (Col. 16, lines 24 – 28, Cianfrocca[9]) and having a clearinghouse interface program capable of interfacing with said clearinghouse database on said clearinghouse server (Col. 16, lines 24 – 28, messenger system enabled application components are programs that call routines in the User Agent Library, Cianfrocca[10]), said clearinghouse interface program further capable of sending a request for a specific file indexed in said clearinghouse database (Col. 13, lines 14 – 26, Ananian);

said clearinghouse server further receiving said request for said specific file from said workstation (Col. 13, lines 29 – 30, Ananian), determines that said specific file is

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[8] The format of the extracted data with highly detailed features of the buildings corresponds to the Computer Aided Design (CAD) format.

[9] Cianfrocca discloses, as cited above, workstations including programs, in the User Agent, to communicate with the messenger system server (equivalent to the clearinghouse server). In addition, Cianfrocca discloses that the communication between the User Agent and messenger system server will be across firewall (Col. 8, lines 7 – 9). This implies that the workstations are also behind the firewall.

[10] Cianfrocca further discloses that these components run in workstations with an interface (Col. 16, lines 27 – 28).

located on said second database (Col. 14, lines 2 – 4, Ananian[11]), and sends said

request for said specific file to said second server (Col. 14, lines 35 – 38, Ananian); and

said second server further receives said request for said specific file (Col. 7, lines

39 – 41, Ananian), locates said specific file in said second database (Col. 7, lines 65 –

67, Ananian), converts said specific file into a first transmittable format (Col. 8, lines 4 –

10, Ananian), and sends said specific file (Col. 20, lines 1 – 6, Ananian).

Regarding Claim 8, Cianfrocca/Ananian discloses a system, wherein said first

database contains files in a first CAD format (Col. 2, lines 43 – 47, Ananian) and said

second database contains files in a second CAD format (Col. 8, lines 54 – 57,

Ananian[12]).

Regarding Claim 9, Cianfrocca/Ananian discloses system, wherein said

clearinghouse server is further adapted to:

receive said specific file (Col. 5, lines 52 – 57, Ananian);

convert said specific file from said first transmittable format to said second CAD

format (Col. 6, lines 4 – 6, Ananian[13]);

translate said specific file from said second CAD format to said first CAD format

(Col. 6, lines 10 – 13, Ananian);

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[11] Ananian further discloses entering zip code or country (location) and other topics of the specific item requested. This implies locating the requested item in a specific database (see Col. 14, Table 1, lines 23 and 27).

[12] The CAD files that are manipulated by the system were sent to and obtained from the builders' database.

[13] Standarized data set (protocol) is a CAD format file (Col. 7, line 12, Ananian).

convert said specific file from said first CAD format into a second transmittable

format (Col. 6, lines 25 – 28, Ananian); and

transmit said specific file to said workstation (Col. 13, lines 34 – 36, Ananian).

Regarding Claim 10, Cianfrocca/Ananian discloses a system, wherein said

clearinghouse interface program comprises a plug-in application (Col. 16, lines 26 – 29,

Ananian).

Regarding Claim 11, Cianfrocca/Ananian discloses a system, wherein said first

transmittable format comprises XML (Col. 7, lines 20 – 26, Ananian).

Response to Arguments

1.   Applicant argues that office action fails to disclose; "that the user is sent a

requested file converted into transmittal form".

Examiner respectfully disagrees. Neither claim 1 nor claim 7 disclose the

limitation including a user who is sent a requested file. However, the combination of

Cianfrocca in view of Ananian (Cianfrocca/Ananian hereinafter) does disclose the claim

language including the limitation where the user is sent a requested file converted into

transmittal form (Col. 3 and 7, lines 41 – 52, and 21 – 27 and 48 – 53; respectively,

Ananian). Wherein the profile response corresponds to the requested file as claimed

(Col. 3, lines 37 – 39, Ananian); the data file of the plan set corresponds to the

requested file claimed (Col. 7, lines 9 – 13 and 20 – 24, Ananian); and the "XML"

(External Markup Language corresponds to the transmittal form claimed (Col. 7, lines

21 – 27 and 48 – 53, Ananian).

2.   Applicant argues that office action fails to disclose; "a user that can manage CAD

data in a plurality of disparate and diverse databases or share files across disparate

databases ".

Examiner respectfully disagrees. Cianfrocca/Ananian does disclose user that can

manage CAD data (Col. 7, lines 4 – 20, AutoCAD, Solidbuilder, VersaCAD,

GeneriCAD, Ananian) in a plurality of disparate and diverse databases (Fig. 1, items

101 – 110, Col. 8, lines 50 – 60, Ananian) and share files across disparate databases

(Col. 8, lines 32 – 36, Ananian). Wherein the step of developing linkages and

association of all physical attributes of the received plan corresponds to the step of

sharing files claimed.

3.   Applicant argues that office action fails to disclose the basic three criteria to

establish *prima facie* case of obviousness.

Examiner respectfully disagrees. According to MPEP § 2142, to establish *prima*

facie case of obviousness three basic criteria must be met. **First**, there must be some

suggestion or motivation, either in the references themselves or in the knowledge

generally available to one of ordinary skill in the art, to modify the reference or to

combine the reference teachings. The prior art discloses a suggestion for combining the

references (Cianfrocca and Ananian).

As suggested by Ananian, skilled artisan would have been motivated to make such

combination, to provide/let users manipulate, modify, and update different CAD format

files. One of ordinary skills in the art at the time the invention was made would have

been motivated to do so, in order to improve interaction between the client and the

professionals throughout the construction process; to ensure consistent and informed

client input, cost-effective decisions, while maintaining the client's visionary perspective

(Col. 2, lines10 – 17, Ananian). **Second**, there must be a reasonable expectation of

success. The prior art suggests a successful outcome of this combination, such as, a

significantly reducing in the time, complexity and uncertainty involved in the design of a

structure (Col. 3, lines 43 – 45, Ananian), improving interaction between the client and

the builder throughout the construction process (Col. 3, lines 53 – 55, Ananian),

acquiring a fully detailed build specification from a client (Col. 3, lines 58 – 60, Ananian),

and reducing lengthy communications between the builder and the client, making the

builder efficient and bale to focus on the core task: building the house (Col. 3, lines 61 –

64, Ananian). **Third**, both of the references (Cianfrocca and Ananian) teach features

that are directed to the same industry field of database management systems, such as,

relational databases, transmitting and receiving data through servers, clients, and

databases. This close relation between both of the references highly suggests an

expectation of success. Therefore, the combination of Cianfrocca in view of Ananian

discloses all the claim limitations disclosed in the claimed invention. For the reasons

stated above the combination of Cianfrocca in view of Ananian does not teach away

from the present application (both references are in the same field of endeavor and both

deal with CAD format files).

Conclusion

1.　　The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

2.　　**THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

　　　A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Prior Art made of Record

1.   Ananian et al. (US Patent No. 6,922,701 B1) discloses generating CAD

independent interactive physical description remodeling, building construction plan

database profile.

2.   Cianfrocca. Et al. (US Patent No. 6, 088,796) discloses a secure middleware and

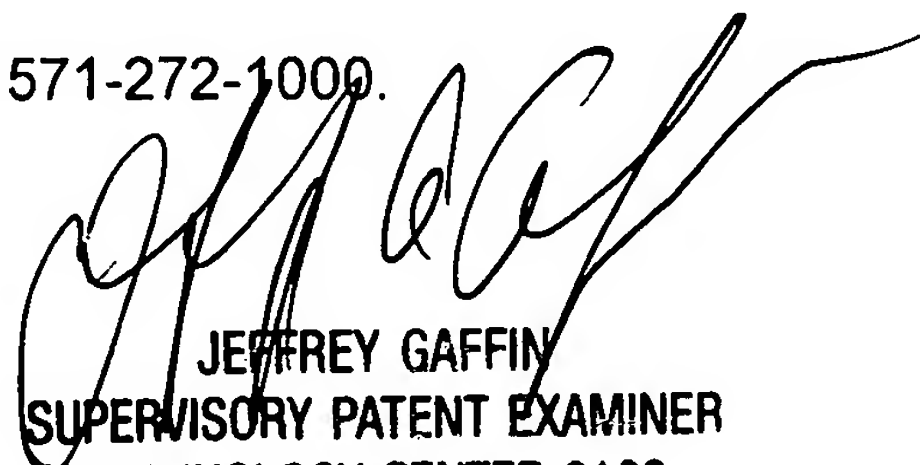server control system for querying through a network firewall.

Points Of Contact

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Giovanna Colan whose telephone number is (571) 272-2752. The examiner can normally be reached on 8:30 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Breene can be reached on (571) 272-4107. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JEFFREY GAFFIN
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Giovanna Colan
Examiner
Art Unit 2162
June 26, 2006

SA